

CLAIMS LISTING

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A quick cooling device comprising:
a case having an inside space divided into a cavity and a device chamber;
a cavity door on a front part of the case for opening/closing the cavity;
~~means~~ a structure in the cavity, for bringing a cold accumulation pack into contact with a drink container, and shaking the cold accumulation pack and the drink container together, to cool down a drink in the drink container, ~~quickly~~; and
a refrigerating system in the case for cooling the cold accumulation pack.

2. (Currently Amended) The quick cooling device as claimed in claim 1, wherein the case includes an insulating material attached to an inside surface of ~~the~~ a wall of the cavity.

3. (Original) The quick cooling device as claimed in claim 1, wherein the cavity door is hinge coupled to one side of the case.

4. (Currently Amended) The quick cooling device as claimed in claim 1, wherein the case includes a front plate attached to a surface of the case and having the cavity door attached thereto so as to be in contact with the cavity door, ~~and the front plate~~ having an opening ~~to make from the cavity in communication with~~ to an exterior of the case.

5. (Currently Amended) The quick cooling device as claimed in claim 1, wherein the refrigerating system includes[[:]]:

a compressor for compressing and transferring refrigerant,

a condenser for condensing transferred refrigerant,
an expansion device for expanding condensed refrigerant, and
an evaporator for cooling the cavity by ~~using~~ a heat absorption reaction ~~taking place that occurs~~ when the expanded refrigerant is evaporated.

6. (Original) The quick cooling device as claimed in claim 5, wherein the compressor and the condenser are in the device chamber.

7. (Original) The quick cooling device as claimed in claim 6, wherein the refrigerating system further includes a fan for blowing air to the compressor and the condenser.

8. (Currently Amended) The quick cooling device as claimed in claim 7, wherein the case includes[[:]]:

an air inlet adjacent to the fan for introducing external air into the device chamber,
and

an air outlet adjacent to the compressor and the condenser for discharging the air cooled the compressor and the condenser to an exterior.

9. (Original) The quick cooling device as claimed in claim 5, wherein the evaporator is in the cavity.

10. (Original) The quick cooling device as claimed in claim 9, wherein the refrigerating system further includes a fan for supplying cold air around the evaporator to the cold accumulation pack.

11. (Currently Amended) The quick cooling device as claimed in claim 1, wherein the cold accumulation pack includes[[:]]:

a cold accumulation material for being cooled down to a low temperature by the refrigerating system, and

a soft bag for storing the cold accumulation material therein.

12. (Original) The quick cooling device as claimed in claim 11, wherein the cold accumulation material is a solution of sodium chloride, or potassium chloride.

13. (Original) The quick cooling device as claimed in claim 12, wherein the cold accumulation material has a freezing point in a range of $-7^{\circ}\text{C} \sim -20^{\circ}\text{C}$.

14. (Currently Amended) The quick cooling device as claimed in claim 1, wherein the ~~means~~ structure in the cavity includes[[:]]:

a motor having a reversible rotation shaft,

a shaking case ~~with many holes in the cavity~~ for rotating ~~following in response to~~ rotation of the rotation shaft, the shaking case including a plurality of holes and being disposed in the cavity,

a low temperature cold accumulation pack in the shaking case ~~for being configured to be~~ brought into close contact with the drink container introduced into the shaking case, and rotating with the container, to cool down the drink in the drink container, ~~quickly~~.

15. (Currently Amended) The quick cooling device as claimed in claim 14, wherein the ~~means~~ structure in the cavity further includes[[:]]:

a rotation guide having circular outside surface surrounding the shaking case, and

a plurality of rollers in the cavity in contact with the rotation guide for supporting the shaking case and guiding rotation of the rotation guide.

16. (Currently Amended) The quick cooling device as claimed in claim 14, wherein the shaking case includes[[;]]:

a body with ~~many~~ a plurality of holes having an ~~opened~~ open front part and upper part, and a space therein, and

a shaking case door for opening/closing the front and upper parts of the body.

17. (Original) The quick cooling device as claimed in claim 16, wherein the cold accumulation pack is mounted on an underside of the shaking case door in a soft state.

18. (Original) The quick cooling device as claimed in claim 16, wherein the cold accumulation pack is mounted on the underside of the shaking case door and on a bottom surface of the body.

19. (Currently Amended) The quick cooling device as claimed in claim 1, wherein the ~~means~~ structure in the cavity includes[[;]]:

first and second cold accumulation packs for surrounding an outside surface of the drink container ~~with drink~~ therein from opposite sides,

a frame in the cavity having the cold accumulation packs provided therein, and

a shaking device for at least one of rotating the frame ~~repeatedly or~~ and reciprocating ~~on~~ the frame along a straight line.

20. (Currently Amended) The quick cooling device as claimed in claim 19, wherein the first and second cold accumulation packs are formed of a soft material for ~~free~~ deformation in conformity with an outside shape of the drink container with the drink.

21. (Currently Amended) The quick cooling device as claimed in claim 19, wherein the shaking device is a motor connected to one side of the frame for at least one of rotating the frame in-left-or-right at least one of a clockwise or counterclockwise direction, and reciprocating or moving the frame back and forth.

22. (Currently Amended) The quick cooling device as claimed in claim 19, wherein the frame includes[[;]]:

a base having ~~one~~ a surface to which the cold accumulation pack is fixed ~~thereto~~, and ~~one~~ a side to which the shaking device is connected ~~thereto~~,

an elevating plate having ~~one~~ a surface opposite to the first cold accumulation pack to which the second cold accumulation pack is fixed ~~thereto~~, ~~for moving the elevating plate configured to move up/down in a space one of over-or and under the base, and~~

an elevating device for moving the elevating plate up/down.

23. (Currently Amended) The quick cooling device as claimed in claim 22, wherein the elevating device includes[[;]]:

guide members each ~~standing on~~ extending from the frame vertically and ~~extended to pass~~ passing through the elevating plate, and

a driving device for moving the elevating plate in an up/down direction along the members.

24. (Currently Amended) The quick cooling device as claimed in claim 23, wherein the driving device includes[[;]]:

a driving motor fixed to one side of the frame,

a screw parallel to the guide members ~~to be~~ and rotatable ~~following in response to~~ rotation of the driving motor, and

a nut fixed to the elevating plate and engaged with the screw.